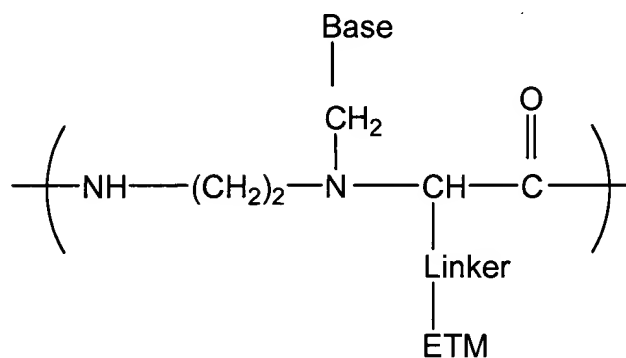


## AMENDMENTS TO THE CLAIMS

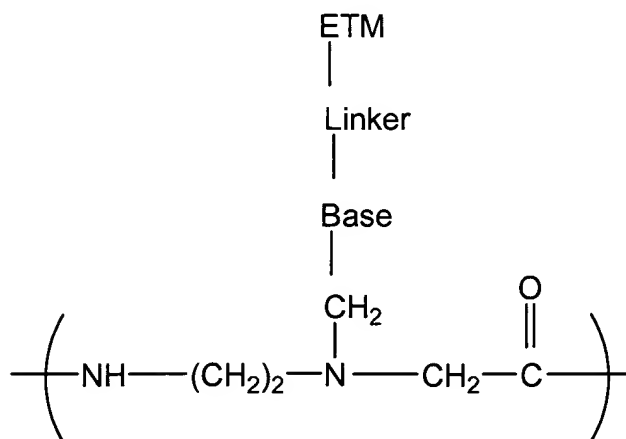
Claims 1-61 (canceled)

62 (new). A peptide nucleic acid comprising at least one monomeric subunit having the formula:



wherein ETM is an electron transfer moiety.

63 (new). A peptide nucleic acid comprising at least one monomeric subunit having the formula:



wherein ETM is an electron transfer moiety.

64 (new). A composition according to claim 62 or 63 wherein said monomeric subunit is an internal subunit.

65 (new). A composition according to claim 62 or 63 wherein said electron transfer moiety is an electrode and said linker is a conductive oligomer.

66 (new). A composition according to claim 62 or 63 wherein said electron transfer moiety is a transition metal complex.

67 (new). A composition according to claim 66 wherein said transition metal complex is a metallocene.

68 (new). A composition according to claim 67 wherein said metallocene is a ferrocene.